

# SEQUENCE LISTING

## **SEQ ID NO:1**

human IRAK-4 amino acid sequence

5 MNKPITPSTYVRCLNVGLIRKLSDFIDPQEGWKKLAVAIAKKPSGDDRYNQFHRRF  
EALLQTGKSPTSELLFDWGTNCTAGDLVDLLIQNEFFAPASLLLPDAVPKTANT  
LPSKEAITVQKQMPFCDKDRITLMTVPVQNLEQSYMPPDSSSPENKSLEVSDFRHF  
SFSFYELKNVTNFDERPISVGGNKMGEFGVVKGYVNNTTVAVKKLAAMV  
DITTEELKQQFDQEIYMAKQHENLVELLGFSSDGDCLVYVYMPNGSLDR  
10 LSCLDGTPLSWHMRCKIAQGAANGINFLHENHHHRDIKSANILLDEAFTAKISD  
FGLARASEKFAQTVMTSRIVGTTAYMAPEALRGEITPKSDIYSFGVVLLEITGLPA  
VDEHREPQLLLDIKEEIEDEKTIEDYIDKKMNDADSTSEAMYSVASQCLHEKK  
NKRPDIKKVQQLQEMTAS

## **SEQ ID NO:2**

human IRAK-4 cDNA sequence

ATGAACAAACCCATAACACCATCAACATATGTGCGCTGCCTCAATGTTGGACT  
20 AATTAGGAAGCTGTCAGATTTTATTGATCCTCAAGAAGGATGGAAGAAGTTA  
GCTGTAGCTATTAACCAATCTGGTGATGATAGATACAATCAGTTTCACAT  
AAGGAGATTGAAGCATTACTTCAAAGTGGAAAAAGTCCCACTTCTGAATTA  
CTGTTTGACTGGGGCACCACAAATTGCACAGCTGGTGATCTTGTGGATCTTT  
GATCCAAAATGAATTTTTGCTCCTGCGAGTCTTTGCTCCAGATGCTGTTC  
25 CAAAGTCTAATACACTACCTTCTAAAGAAGCTATAACAGTTCAGCAAAAA  
CAGATGCCTTTCTGTGACAAAGACAGGACATTGATGACACCTGTGCAGAATC  
TTGAACAAAGCTATATGCCACCTGACTCCTCAAGTCCAGAAAATAAAAGTTT  
AGAAGTTAGTGATACACGTTTTCACAGTTTTCATTTTATGAATTGAAGAATG  
TCACAAATAACTTTGATGAACGACCCATTTCTGTTGGTGGTAATAAAATGGGA  
30 GAGGGAGGATTGGAGTTGTATATAAAGGCTACGTAAATAACACAAGTGTGG  
CAGTGAAGAAGCTTGCAGCAATGGTTGACATTACTACTGAAGAAGTGAACA  
GCAGTTTGATCAAGAAATAAAAGTAATGGCAAAGTGCAACATGAAAACCTTA  
GTAGAAGTACTTGGTTTCTCAAGTGATGGAGATGACCTCTGCTTAGTATATGT  
TTACATGCCTAATGGTTTCATTGCTAGACAGACTCTTGTGCTGGATGGTACTC

CACCAC TTTCTTGGCACATGAGATGCAAGATTGCTCAGGGTGCAGCTAATGGC  
 ATCAATTTTCTACATGAAAATCATCATATTCATAGAGATATTAAGTGCAAA  
 TATCTTACTGGATGAAGCTTTTACTGCTAAAATATCTGACTTTGGCCTTGCAC  
 GGGCTTCTGAGAAGTTTGCCAGACAGTCATGACTAGCAGAATTGTGGGAAC  
 5 AACAGCTTATATGGCACCAGAAGCTTTCGCTGGAGAAAATAACACCCAAATCT  
 GATATTACAGCTTTGGTGTGTTTTACTAGAAAATAAATACTGGACTTCCAGC  
 TGTGGATGAACACCGTGAACTCAGTTATTGCTAGATATTAAAGAAGAAATT  
 GAAGATGAAGAAAAGACAATTGAAGATTATATTGATAAAAAGATGAATGAT  
 GCTGATTCCACTTCAGTTGAAGCTATGTACTCTGTTGCTAGTCAATGTCTGCAT  
 10 GAAAAGAAAATAAGAGACCAGACATTAAGAAGGTTCAACAGCTGCTGCAA  
 GAGATGACAGCTTCTTAA

### **SEQ ID NO:3**

15 murine IRAK-4 amino acid sequence

MNKPLTPSTYIRNLNVGILRKLSDFIDPQEGWKKLVAIAIKKPSGDDRYNQFHRRF  
 EALLQTGKSPTCELLFDWGTNCTVGDLDLLVQIELFAPATLLLPDAVPQT VKS  
 LPPREAAATVAQTHGPCQEKDRTSVMPMPKLEHSCEPPDSSSPDNRSVESSDTRFH  
 20 SFSFHELKSITNMFDEQPASAGGNRMGEGGFVVYKGCVNNTIVAVKKLGAMVE  
 ISTEELKQQFDQEI KVMATCQHENLVELLGFSSDSNDLCLVYAYMPNGSLDRLS  
 CLDGTPLPSWHTRCKVAQGTANGIRFLHENHHIHRDIKSANILLDKDFTAKISDFG  
 LARASARLAQTVMTSRIVGTTAYMAPEALRGEITPKSDIYSFGVVLELITGLAAV  
 DENREPQLLLDIKEIEDEEKTIEDYTDKMSDADPASVEAMYSAASQCLHEKKN  
 25 RRPDIQKVQQLQEMSA

### **SEQ ID NO:4**

mouse IRAK-4 cDNA sequence

GCGGCCGCGTCGACATGCCCCGGTGACCCGACGATCCCGATCGCAGGCAGT  
 CTGAAGTCGCCTGGTGGTCTGCGTCCTCCACCCCGAGTCCTCGCCGGACGT  
 GGGCGGACGCCGATCGCCTTGTCAGGAAGCGAGGGACGTCCGAGAGGAAG  
 TAGAAGATGAACAAGCCGTTGACACCATCGACATACATACGCAACCTTAATG  
 TGGGGATCCTTAGGAAGCTGTCGGATTTTATTGATCCTCAAGAAGGGTGAA

GAAATTAGCAGTAGCTATCAAAAAGCCGTCCGGCGACGACAGATACAATCAG  
 TTCCATATAAGGAGATTCTGAAGCCTTACTTCAGACCGGAAGAGCCCCACCT  
 GTGAAGTGTGTTGACTGGGGCACCACGAACTGCACAGTTGGCGACCTTGTG  
 GATCTACTGGTCCAGATTGAGCTGTTTGCCTCCGCACTCTCCTGCTGCCGA  
 5 TGGCGTTCCTCCAAACCGTCAAAAGCCTGCCTCCTAGAGAAGCGGCAACAGTG  
 GCACAAACACACGGGCTTGTGAGGAAAAGGACAGGACATCCGTAATGCCTA  
 TGCCGAAGCTAGAACACAGCTGCGAGCCACCGGACTCTCAAGCCCAGACAA  
 CAGAAGTGTAGAGTCCAGCGACACTCGGTTCCACAGCTTCTCGTTCATGAAC  
 TGAAGAGCATCACAAACAATTGACGAGCAACCCGCGCTGCGCGGTGGCAA  
 10 CCGGATGGGAGAGGGGGGATTGGAGTGGTGTACAAGGGCTGTGTGAACAAC  
 ACCATCGTGGCGGTGAAGAAGCTCGGAGCGATGGTTGAAATCAGTACTGAAG  
 AACTAAAGCAACAGTTTGATCAAGAAATTAAGTAATGGCAACGTGTCAGCA  
 CGAGAACCTGGTGGAGCTGCTCGGCTTCTCCAGCGACAGCGACAACCTGTGC  
 TTAGTGTATGCTTACATGCCCCACGGGTCTTGTGTGACAGACTGTCCTGCCT  
 15 GGATGGTACACCACCGCTTCTGCGCACACAAGGTGCAAGTTGCTCAGGGG  
 ACAGCAAATGGCATCAGTTTCTGCATGAAAATCATCACATTCATAGAGATA  
 TTAAGAGTGCAAAATATCTTACTAGACAAAGACTTACTGCCAAAATATCTGAC  
 TTTGGGCTTGACGGGCTTCGGCAAGGCTAGCGCAGCGGTCATGACCAGCC  
 GAATCGTGGGCACAACGGCTTACATGGCACCCGAGCTTTGCGGGGAGAAAT  
 20 AACACCCAAATCTGACATCTACAGCTTCGGCGTGGTTCTGTTGGAGCTGATAA  
 CCGGCTGGCGGCTGTGGATGAAAACCGTGAACCTCAACTACTGCTGGATAT  
 TAAAGAAGAGATTGAAGATGAAGAGAAGACGATTGAAGATTACACGGATGA  
 GAAGATGAGCGATGCGGACCCTGCTTCGTTGGAAGCAATGTACTCTGCTGCT  
 AGCCAGTGTCTGCATGAGAAGAAAAACAGACGGCCAGACATTGCAAGGTTCT  
 25 AACAGCTGCTACAAGAGATGTCTGCTTAA

# **SEQ ID NO:5**

Sense primer for amplification of human IRAK-4

30

ATGAACAAACCCATAACACCATCAACATATGTGC

**SEQ ID NO:6**

Antisense primer for amplification of human IRAK-4

TTAAGAAGCTGTCATCTCTTGCAGC